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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/832,503	04/11/2001	Thomas E. Benim	DP6945 US NA	2453
23906	7590	01/29/2004	EXAMINER	
E I DU PONT DE NEMOURS AND COMPANY LEGAL PATENT RECORDS CENTER BARLEY MILL PLAZA 25/1128 4417 LANCASTER PIKE WILMINGTON, DE 19805			RHEE, JANE J	
			ART UNIT	PAPER NUMBER
			1772	20
DATE MAILED: 01/29/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

A220

Office Action Summary

Application No.

09/832,503

Applicant(s)

BENIM ET AL.

Examiner

Jane J Rhee

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 November 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-34 is/are pending in the application.
- 4a) Of the above claim(s) 5,12-17 and 33 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4,6-11 and 18-34 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Withdrawn Rejections

1. The 35 U.S.C. 112 of claims 1-4,6-11,18-34 previously made of record in paragraph 1 of Paper 16 has been withdrawn due to applicant's amendments in Paper 18.
2. The 35 U.S.C. 102 rejection of claims 1-3,9,11,27,28,31,32,33 anticipated by Frankosky et al. made of record in paragraph 2 of Paper 16 has been withdrawn due to applicant's amendment in Paper 18.
3. The 35 U.S.C. 102 rejection of claims 1-4,6,8-9,11,18-19,21,23,24,27,30-34 anticipated by Barre made of record in paragraph 3 of Paper 16 has been withdrawn due to applicant's amendment in Paper 18.
4. The 35 U.S.C. 103 rejection of claims 6,10,20 over Frankosky et al. in view of Hobson made of record in paragraph 4 of Paper 16 has been withdrawn due to applicant's amendment in Paper 18.
5. The 35 U.S.C. 103 rejection of claims 4,7 over Frankosky et al. in view of Squiddiqui made of record in paragraph 5 of Paper 16 has been withdrawn due to applicant's amendment in Paper 18.
6. The 35 U.S.C. 103 rejection of claims 22,25-26,29 over Barre in view of Hobson made of record in paragraph 6 of Paper 16 has been withdrawn due to applicant's amendment in Paper 18.

Response to Arguments

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Applicant's arguments with respect to claims 1-+4,6-11,18-33,34 have been considered but are moot in view of the new ground(s) of rejection.

New Rejections

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1,2,4,6,7,8,10,11,18,19,21-23,27,28,31,32 are rejected under 35

U.S.C. 102(b) as being anticipated by Tollette (4273816).

Tollette discloses an insulating label stock comprising a thermal insulating layer (figure 1 number 22) having a thermal resistance in the range of 0.05 to 0.5 CLO (0.0077 to 0.077 m²K/W) (see calculations below) laminated to a face material (figure 2 number 18) to form the insulating label stock having a thickness in the range of 0.00025-.025 inches which is at least 0.0075 inch (0.190 cm) (col. 2 lines 65-67) as claimed by applicant.

Polypropylene-

Thermal conductivity value C= 0.12 W/mK (taken from applicant's argument of May 14,2003 page 1 number 1).

1/32 inches (col. line 56) = 0.0007937m

1/0.12W/mK = 8.33mK/W

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$$8.33\text{mK/W} \bullet 0.007937\text{m} = 0.0198\text{m}^2\text{K/W}$$

Thermal resistance value of insulating layer polypropylene is $0.0198\text{m}^2\text{K/W}$.

Tollette discloses that the face material comprises paper (figure 2 number 18) or thermoplastic film comprising polyester, polyethylene or polypropylene (figure 2 number 12 col. 3 lines 8-15). Tollette discloses that the thermal insulating layer is laminated to at least one sheet of coextruded film comprising a first layer, and a second layer where the first layer and the second layer are made of different materials, and the second layer has a lower melting temperature than the material of the first layer (col. 3 lines 10-15). Tollette discloses that the insulating label stock comprises a printable coating on the face material (figure 2 number 16). Tollette discloses that the face material is modified on the surface facing away for the thermal insulating layer to facilitate printing thereon (figure 2 number 18 and 16). Tollette discloses that the face material is modified on the surface facing away for the thermal insulating layer to facilitate bonding to another surface with adhesive (figure 2 number 18 and 14). Tollette discloses that the thermal insulating layer comprises foam (figure 2 number 22). Tollette discloses that the label stock has a thickness in the range of 0.00025-0.25inches (col. 2 lines 66-67), which is in the range of applicant's claimed range of 0.01 inch to 0.04inch. Tollette discloses an adhesive primer applied to the surface of the face material facing away from the thermal insulating layer (figure 2 number 14). Tollette discloses that the face material comprises a first layer and a second layer wherein the second layer is disposed between the thermal insulating layer and the first layer (figure 2 number 12 col. 3 lines 10-14). Tollette discloses another face material disposed on the side of the thermal insulating

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layer facing away from the thermal insulating layer (figure 2 number 28). Tollette discloses that the thermal insulating layer is laminated between two sheets of face material (figure 2 number 22, 18, 28) wherein the label has a top edge (figure 3 number 63) a lower bottom edge (figure 3 bottom of label), and a side edge disposed at each side between the top and bottom edge (figure 3 number 64), and two sheets of face material are sealed together along the top, bottom and side edges (figure 5 number 42, 52).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 3, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tollette in view of Keiser (5851617).

Tollette discloses the label stock described above. Tollette fails to disclose that the thermal insulating layer comprises a fiberfill batt comprising thermoplastic fibers comprising polyester, polyethylene or polypropylene. Kieser teaches a substrate comprising thermoplastic fibers (col. 3 lines 62) or foam (col. 3 line 62) for the purpose of creating a label stock.

Therefore, it would have been obvious to one having ordinary skill in the art at the time applicant's invention was made to provide Tollette with a fiberfill batt

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comprising thermoplastic fibers such as polyester, polyethylene, and polypropylene in order to create a label stock.

9. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tollette in view of Yamada et al. (6306492).

Tollette discloses the label stock described above. Tollette disclose that the face material comprises a thermoplastic film comprising polyester, polyethylene or polypropylene (figure 2 number 12 col. 3 lines 8-15). Tollette fail to disclose that the face material comprises a biaxially oriented polyester film. Yamada et al. teaches label comprising a biaxially oriented polyester film for the purpose of providing superior mechanical strength, heat resistance, chemical resistance and dimensional stability (col. 1 line 15, 26-28).

Therefore, it would have been obvious to one having ordinary skill in the art at the time applicant's invention was made to provide Tollette with a face material comprises a biaxially oriented polyester film in order to obtain superior mechanical strength, heat resistance, chemical resistance and dimensional stability as taught by Yamada et al. (col. 1 line 15, 26-28).

10. Claims 25-26,29-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tollette in view of McFall et al. (6479431).

Tollette discloses the label stock described above. Tollette discloses another face material disposed on the side of the thermal insulating layer facing away from the thermal insulating layer (figure 2 number 28). Tollette fail to disclose a second sheet of

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coextruded film, wherein the second sheet of coextruded film comprises a first layer and a second layer. Tollette fails to disclose that the coextruded film of the first layer and of the second layer is a biaxially oriented polyester film.

McFall et al. teaches a second coextruded film comprising a first layer and a second layer for the purpose of adding strength and /or dimensional stability to the liner (col. 9 lines 45-47). McFall et al. teaches that the coextruded film of the first layer and of the second layer is a biaxially oriented polyester film (col. 4 lines 20-24) for the purpose of adding strength and /or dimensional stability to the liner (col. 4 lines 43).

Therefore, it would have been obvious to one having ordinary skill in the art at the time applicant's invention was made to provide Tollette with teaches a second coextruded film comprising a first layer and a second layer and that the coextruded film of the first layer and of the second layer is a biaxially oriented polyester film in order to add strength and /or dimensional stability to the substrate (col. 4 lines 43) as taught by McFall et al.

11. Claim 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tollette in view of McFall et al. (6479431).

Tollette discloses the label stock described above. Tollette fail to disclose that the first sheet and the second sheet is a biaxially oriented polyester film. McFall teaches the film of the first and of the second sheet is a biaxially oriented polyester film (col. 4 lines 20-24) for the purpose of adding strength and/or dimensional stability to the substrate (col. 4 line 43).

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Therefore, it would have been obvious to one having ordinary skill in the art at the time applicant's invention was made to provide Tollette with the film of the first sheet and of the second sheet is a biaxially oriented polyester film in order to add strength and/or dimensional stability to the substrate (col. 4 line 43).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jane J Rhee whose telephone number is 571-272-1499. The examiner can normally be reached on M-F.

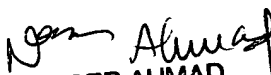
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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Ahmad can be reached on 571-272-1487. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.



Jane Rhee
January 26, 2004


NASSER AHMAD
PRIMARY EXAMINER